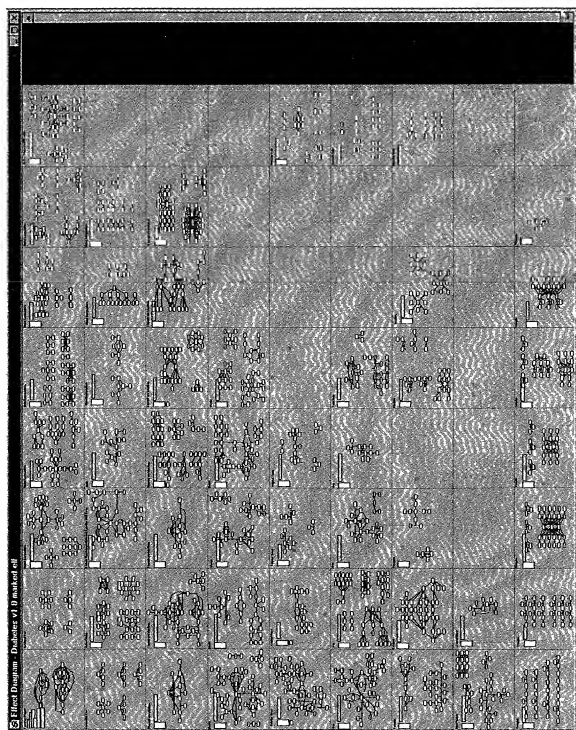
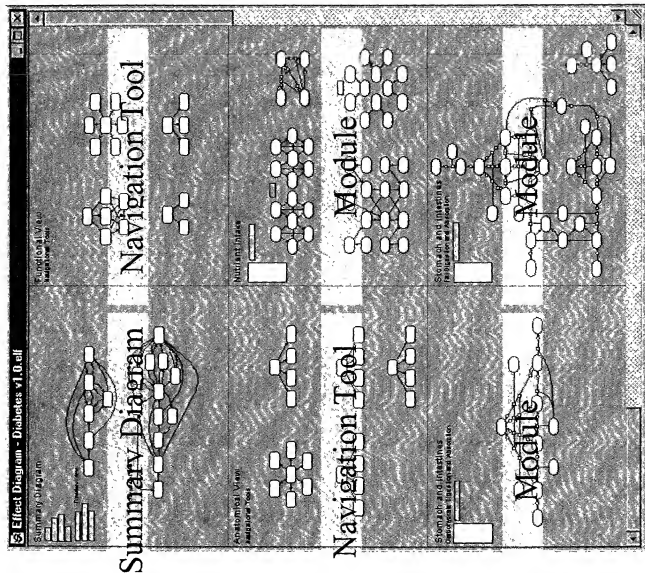


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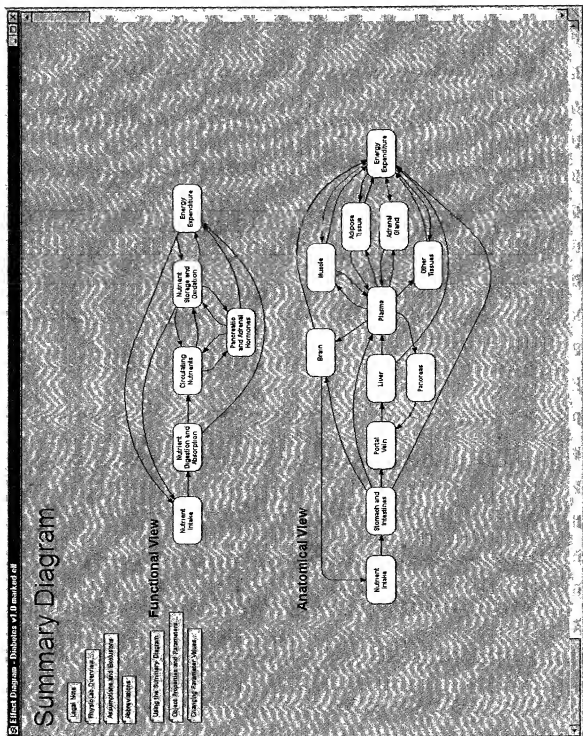


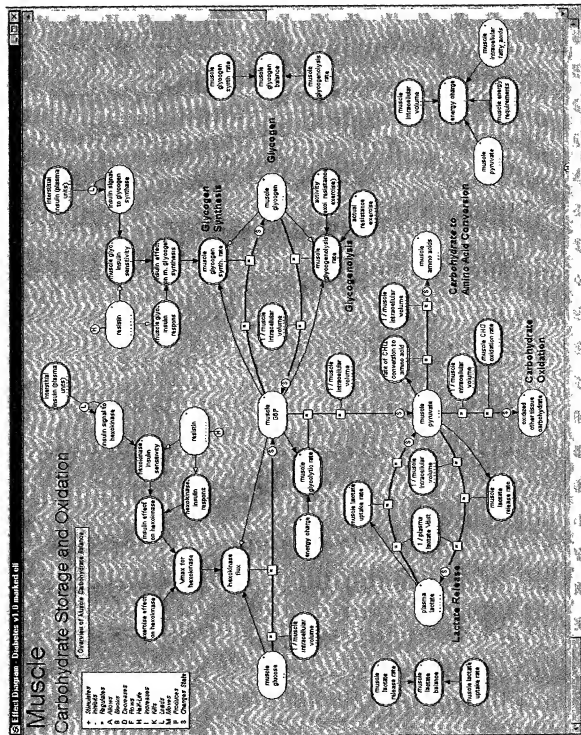
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FIG. 2





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FIG. 4

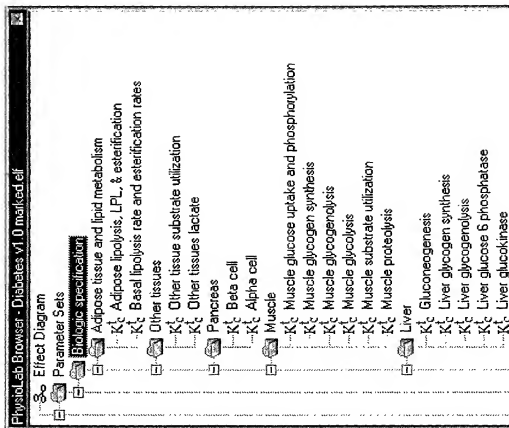


FIG. 5

Parameter Set - Muscle glucose uptake and phosphorylation

Parameter Set Name: Muscle glucose uptake and phosphorylation

Description: This parameter set is used to modify the physiology of the muscle glucose uptake and phosphorylation. In particular, the sensitivity and responsiveness parameter (see below) is used to modify baseline glucose response curves for insulin.

Value Set Name: Moderate diabetic #1

Description: This value set adjust parametric values pertaining to muscle glucose uptake, thereby reducing the effect of insulin to stimulate glucose uptake in muscle.

Type	Location	ID Parameter	Baseline Value Set	Alternate Value Set #1	Units
000000	MCU insulin sensitivity	sensitivity shift	0	moderate diabetic #1	$\mu\text{U/ml}$
000000	MCU insulin response	basal responsiveness	1	0.8	normalized
000000	hexokinase insulin response	basal responsiveness	1	20	normalized
000000	hexokinase insulin sensitivity	sensitivity shift	0		$\mu\text{U/ml}$
000000	insulin effect on GLUT4 Vmax	effect at low insulin	0.5		normalized
000000	Diabetes v1.0 marked at (ED)	basal muscle glucose uptake	20		ng/min

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FIG. 6

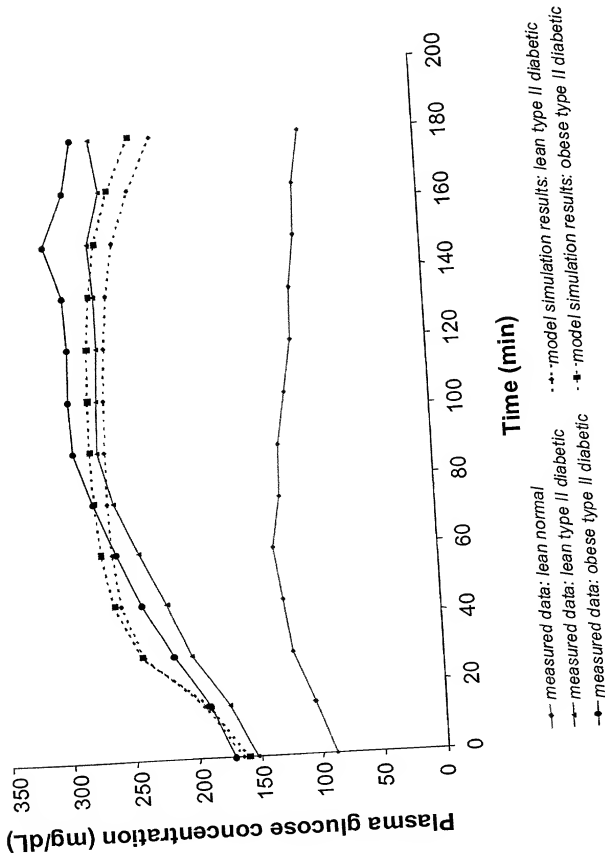


FIG. 7

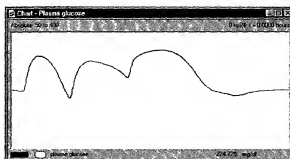


FIG. 8A

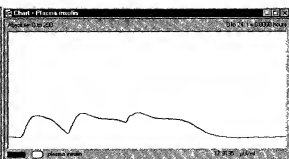


FIG. 8B

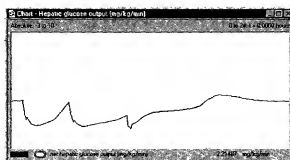


FIG. 8C

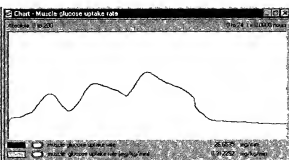


FIG. 8D

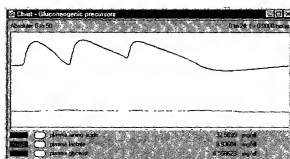


FIG. 8E

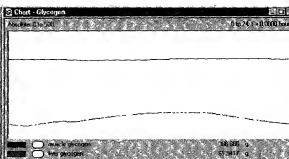


FIG. 8F

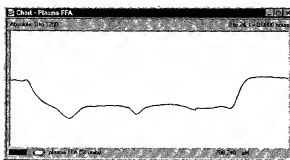


FIG. 8G

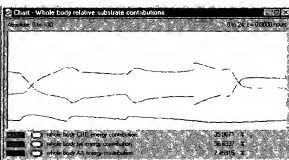


FIG. 8H

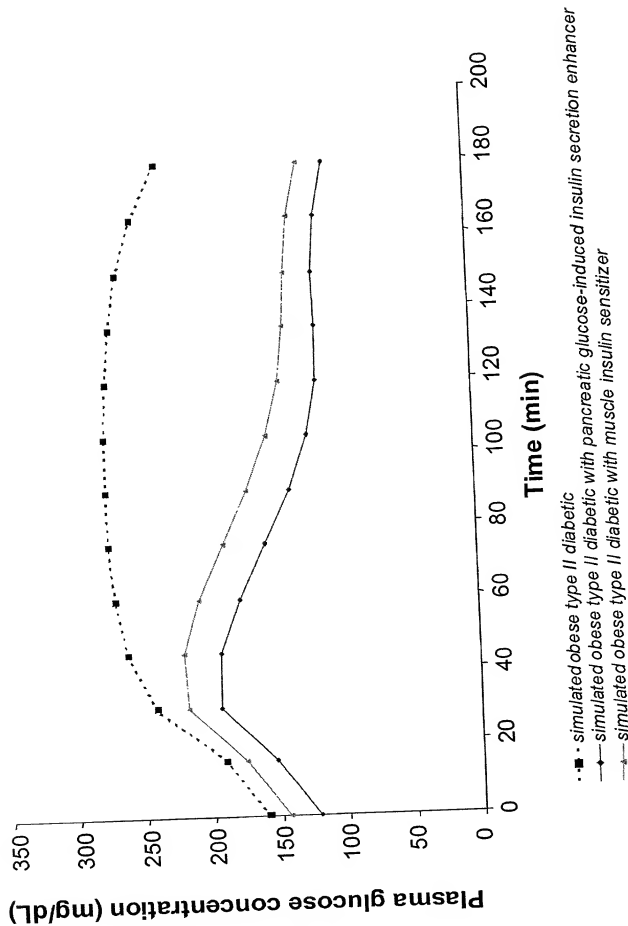


FIG. 9

10040273.010902

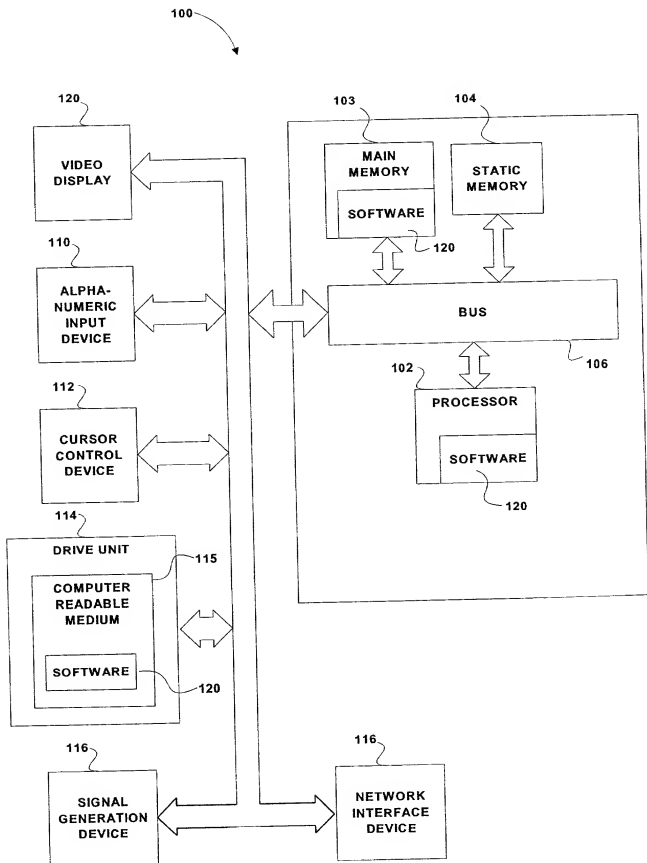


FIG. 10

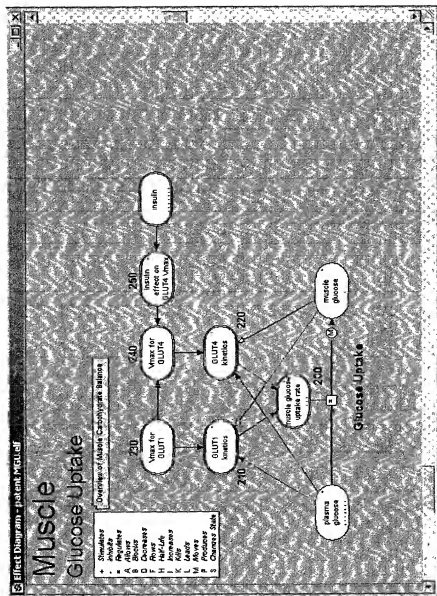


FIG. 11

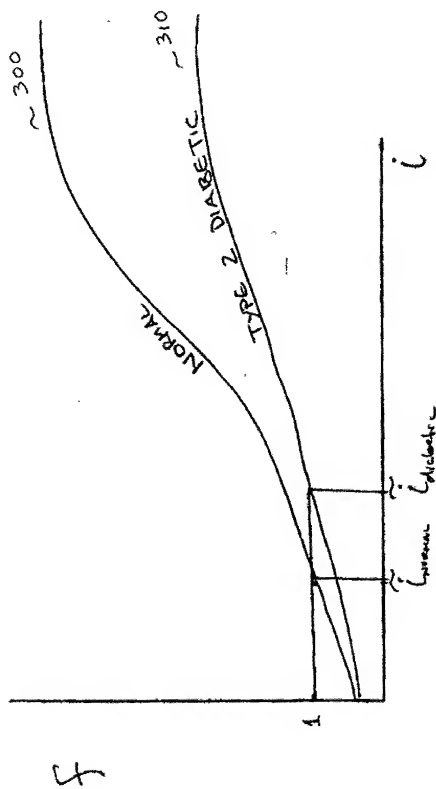


FIG. 12